

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF053023\  
 Data File : BF133521.D  
 Acq On : 30 May 2023 14:43  
 Operator : CG\JU  
 Sample : 02945-11RE  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TWP04RE

Quant Time: May 30 15:06:14 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF052523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 30 12:58:40 2023  
 Response via : Initial Calibration

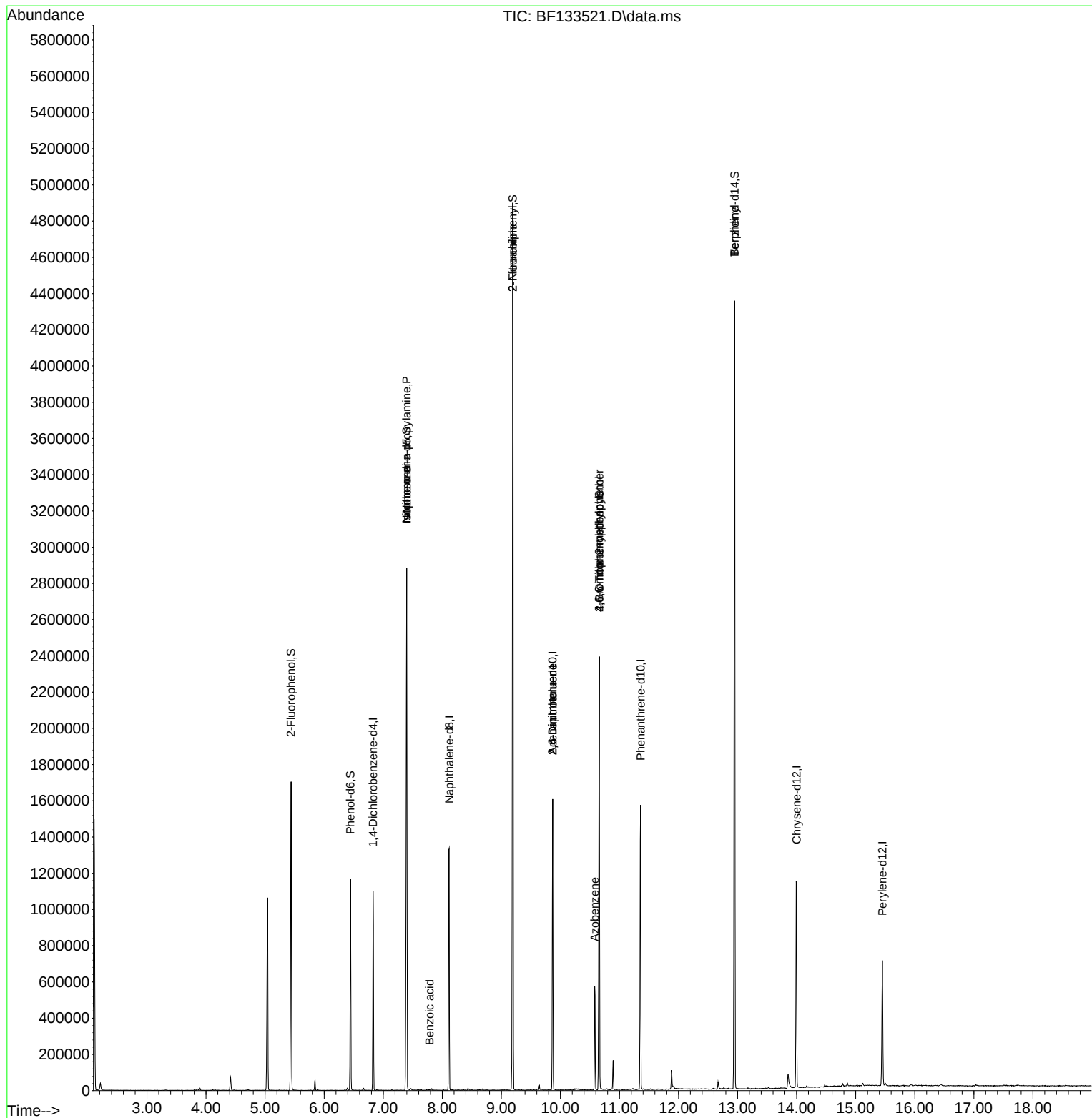
| Compound                      | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|--------|----------|
| -----                         |        |      |          |           |        |          |
| Internal Standards            |        |      |          |           |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.828  | 152  | 154095   | 20.000    | ng     | 0.00     |
| 21) Naphthalene-d8            | 8.116  | 136  | 581894   | 20.000    | ng     | 0.00     |
| 39) Acenaphthene-d10          | 9.869  | 164  | 286671   | 20.000    | ng     | 0.00     |
| 64) Phenanthrene-d10          | 11.357 | 188  | 555004   | 20.000    | ng     | 0.00     |
| 76) Chrysene-d12              | 13.998 | 240  | 387103   | 20.000    | ng     | 0.00     |
| 86) Perylene-d12              | 15.451 | 264  | 288962   | 20.000    | ng     | 0.00     |
| System Monitoring Compounds   |        |      |          |           |        |          |
| 5) 2-Fluorophenol             | 5.440  | 112  | 405248   | 43.878    | ng     | 0.00     |
| 7) Phenol-d6                  | 6.446  | 99   | 312834   | 27.516    | ng     | -0.02    |
| 23) Nitrobenzene-d5           | 7.398  | 82   | 887801   | 101.869   | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.657 | 330  | 261306   | 91.443    | ng     | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.192  | 172  | 1527304  | 82.230    | ng     | 0.00     |
| 79) Terphenyl-d14             | 12.951 | 244  | 1647099  | 75.652    | ng     | 0.00     |
| Target Compounds              |        |      |          |           |        |          |
|                               |        |      |          |           | Qvalue |          |
| 9) Benzaldehyde               | 6.446  | 77   | 480      | Below Cal | #      | 1        |
| 19) n-Nitroso-di-n-propyla... | 7.398  | 70   | 123928   | 16.847    | ng     | # 79     |
| 25) Isophorone                | 7.398  | 82   | 885735   | 43.608    | ng     | # 65     |
| 32) Benzoic acid              | 7.787  | 122  | 627      | 7.442     | ng     | # 61     |
| 48) 2-Nitroaniline            | 9.192  | 65   | 2733     | 4.453     | ng     | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.869  | 165  | 36091    | 12.381    | ng     | # 18     |
| 57) 2,4-Dinitrotoluene        | 9.869  | 165  | 36091    | 11.586    | ng     | # 15     |
| 63) Azobenzene                | 10.581 | 77   | 98407    | 4.700     | ng     | # 1      |
| 65) 4,6-Dinitro-2-methylph... | 10.657 | 198  | 657      | 8.949     | ng     | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.657 | 248  | 16597    | 2.816     | ng     | # 1      |
| 77) Benzidine                 | 12.951 | 184  | 23125    | 2.043     | ng     | # 94     |
| -----                         |        |      |          |           |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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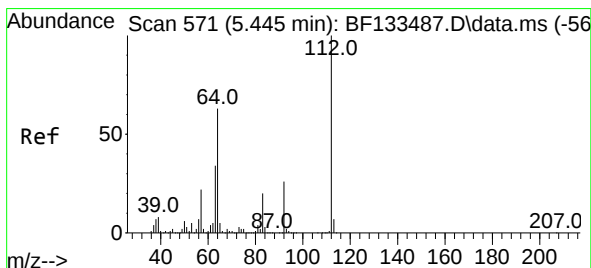
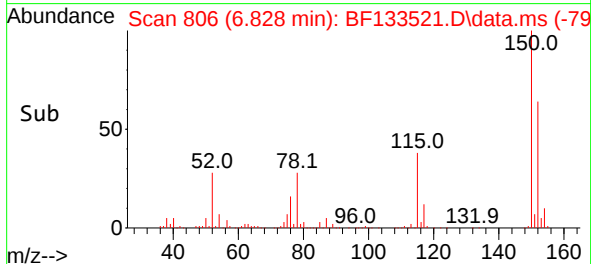
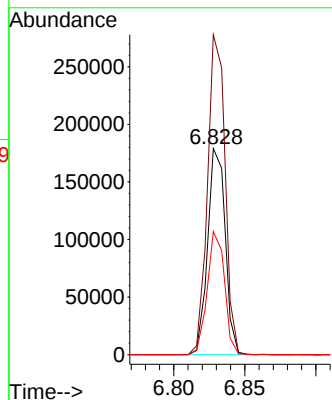
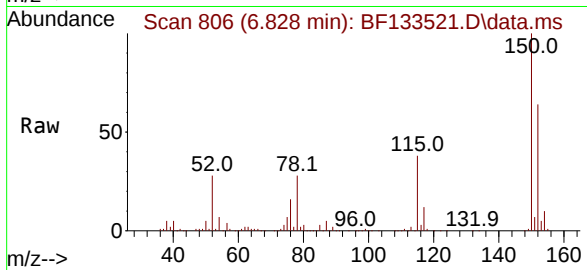




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.828 min Scan# 80  
Delta R.T. -0.006 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

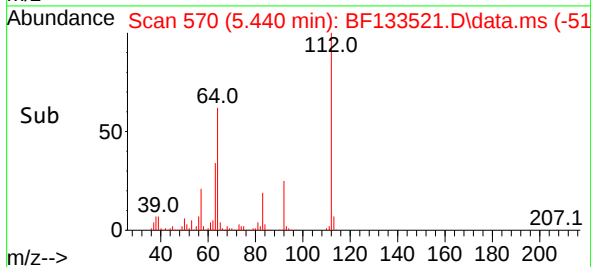
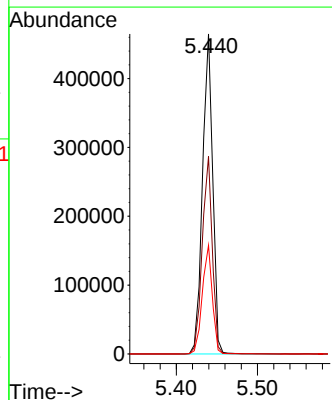
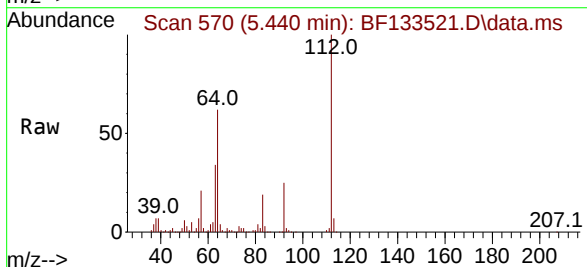
Instrument :  
BNA\_F  
ClientSampleId :  
TWP04RE

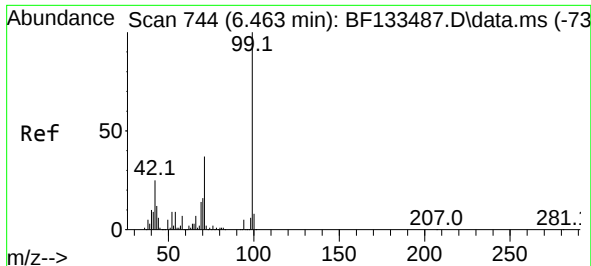
Tgt Ion:152 Resp: 154095  
Ion Ratio Lower Upper  
152 100  
150 155.2 124.9 187.3  
115 59.6 48.1 72.1



#5  
2-Fluorophenol  
Concen: 43.878 ng  
RT: 5.440 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

Tgt Ion:112 Resp: 405248  
Ion Ratio Lower Upper  
112 100  
64 61.7 50.1 75.1  
63 34.0 27.5 41.3





#7

Phenol-d6

Concen: 27.516 ng

RT: 6.446 min Scan# 741

Delta R.T. -0.018 min

Lab File: BF133521.D

Acq: 30 May 2023 14:43

Instrument :

BNA\_F

ClientSampleId :

TWP04RE

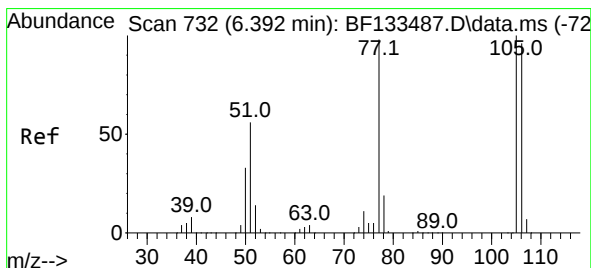
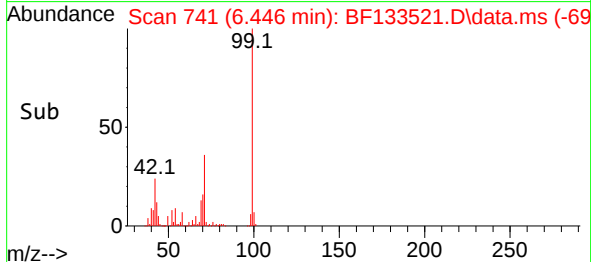
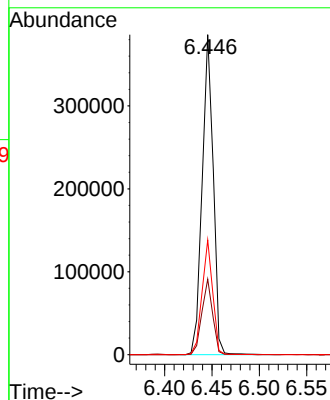
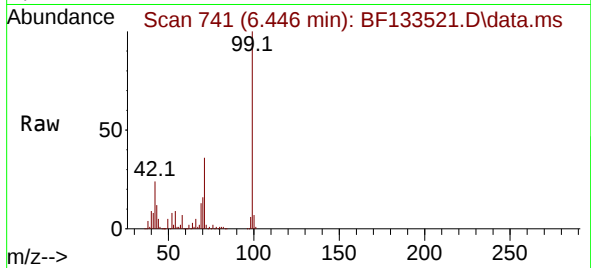
Tgt Ion: 99 Resp: 312834

Ion Ratio Lower Upper

99 100

42 23.6 19.7 29.5

71 35.9 29.8 44.8



#9

Benzaldehyde

Concen: Below Cal

RT: 6.446 min Scan# 741

Delta R.T. 0.059 min

Lab File: BF133521.D

Acq: 30 May 2023 14:43

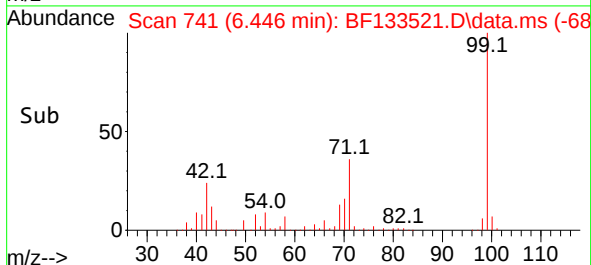
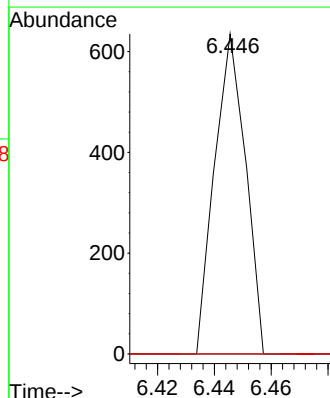
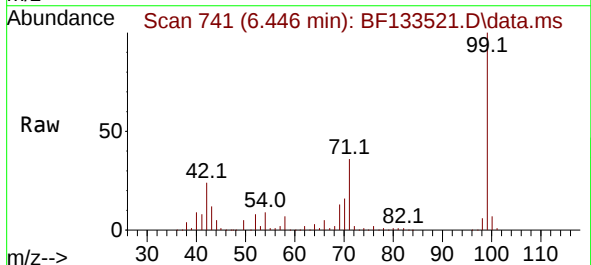
Tgt Ion: 77 Resp: 480

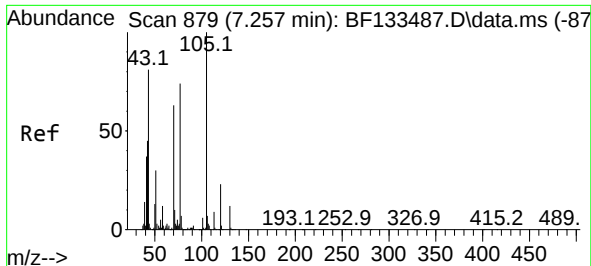
Ion Ratio Lower Upper

77 100

105 0.0 81.9 121.9#

106 0.0 77.8 117.8#

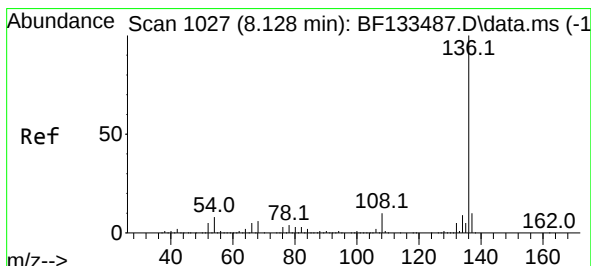
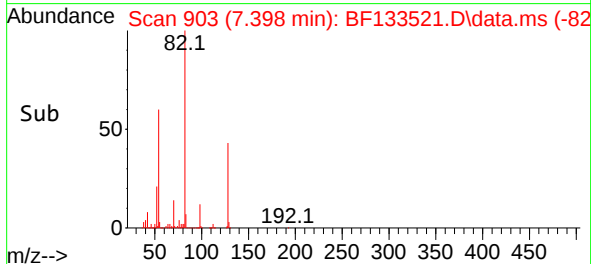
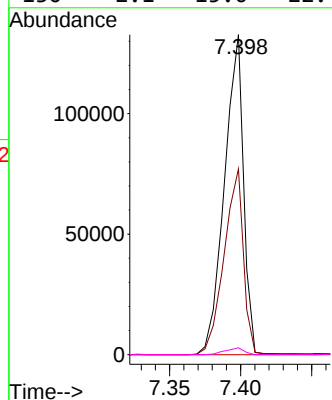
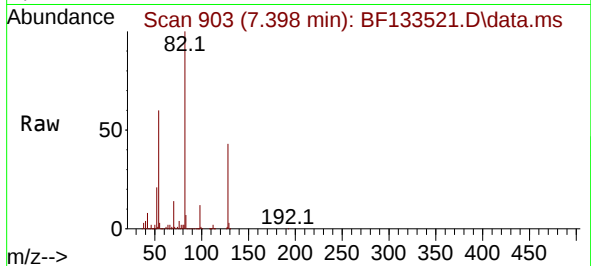




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.847 ng  
RT: 7.398 min Scan# 90  
Delta R.T. 0.147 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

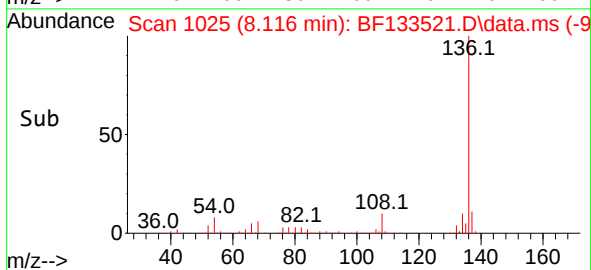
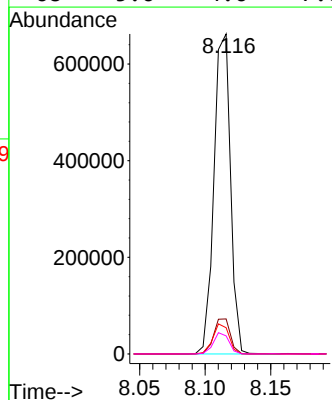
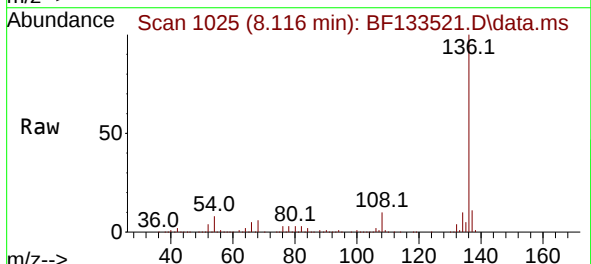
Instrument :  
BNA\_F  
ClientSampleId :  
TWP04RE

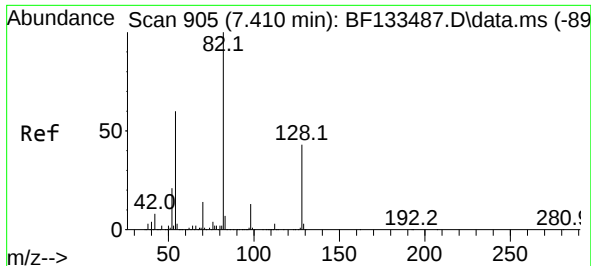
Tgt Ion: 70 Resp: 123928  
Ion Ratio Lower Upper  
70 100  
42 58.0 57.2 85.8  
101 0.0 7.3 10.9#  
130 2.1 15.0 22.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.116 min Scan# 1025  
Delta R.T. -0.000 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

Tgt Ion: 136 Resp: 581894  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.2 12.4  
54 8.2 6.6 10.0  
68 5.6 4.6 7.0





#23

Nitrobenzene-d5

Concen: 101.869 ng

RT: 7.398 min Scan# 903

Delta R.T. -0.006 min

Lab File: BF133521.D

Acq: 30 May 2023 14:43

Instrument :

BNA\_F

ClientSampleId :

TWP04RE

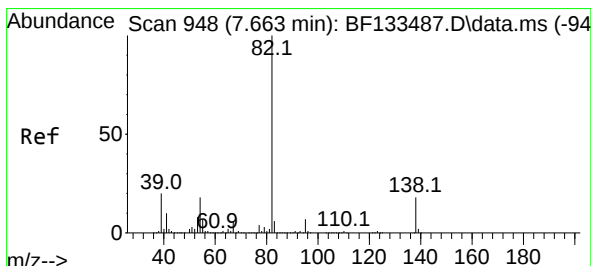
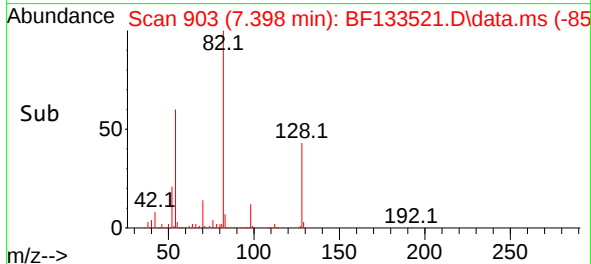
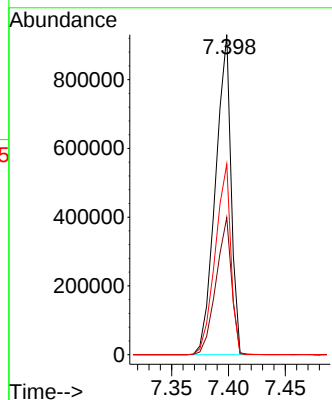
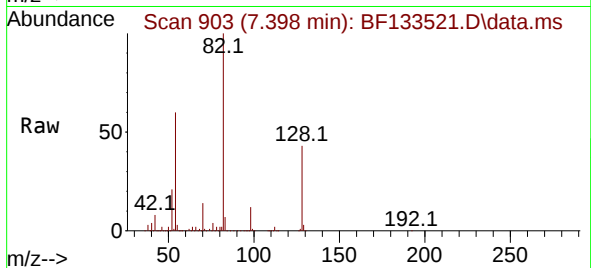
Tgt Ion: 82 Resp: 887801

Ion Ratio Lower Upper

82 100

128 42.8 34.2 51.4

54 59.5 48.2 72.4



#25

Isophorone

Concen: 43.608 ng

RT: 7.398 min Scan# 903

Delta R.T. -0.259 min

Lab File: BF133521.D

Acq: 30 May 2023 14:43

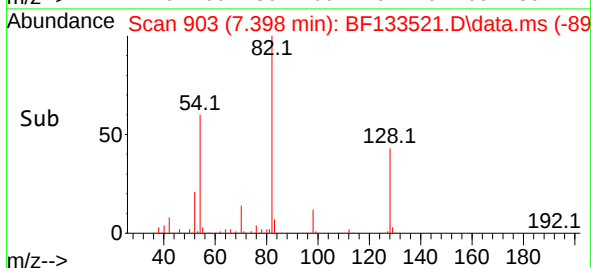
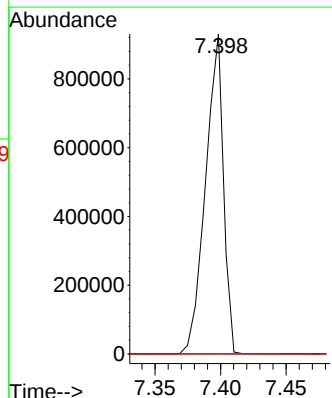
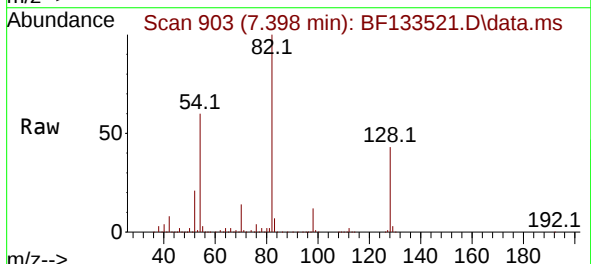
Tgt Ion: 82 Resp: 885735

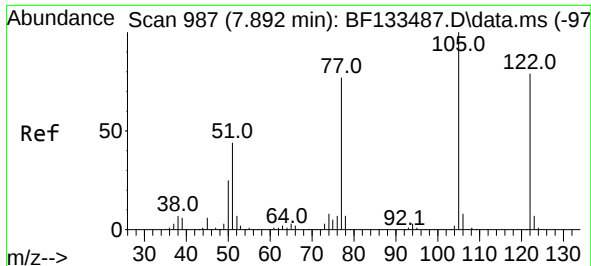
Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

138 0.0 14.2 21.4#

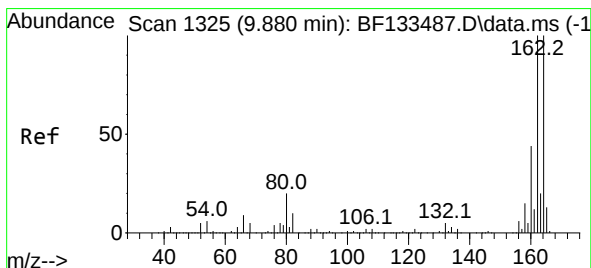
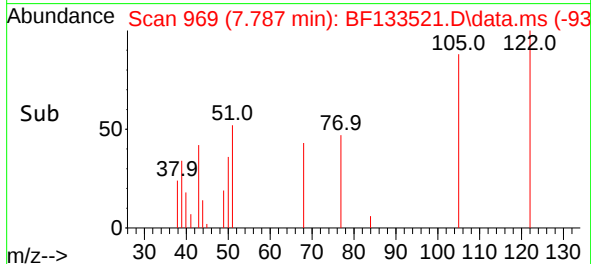
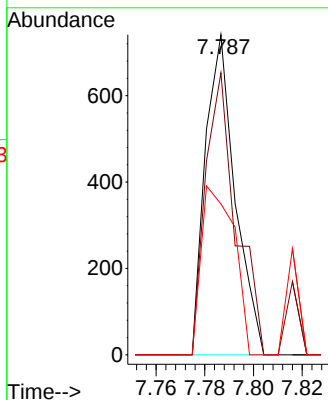
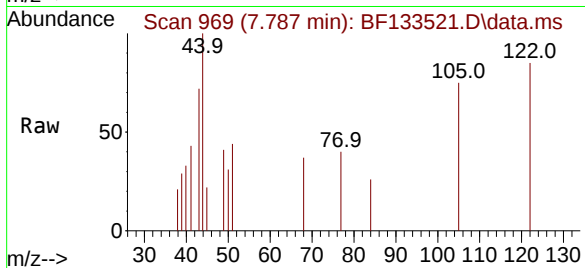




#32  
Benzoic acid  
Concen: 7.442 ng  
RT: 7.787 min Scan# 90  
Delta R.T. -0.094 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

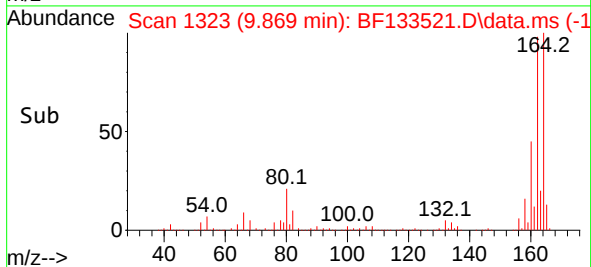
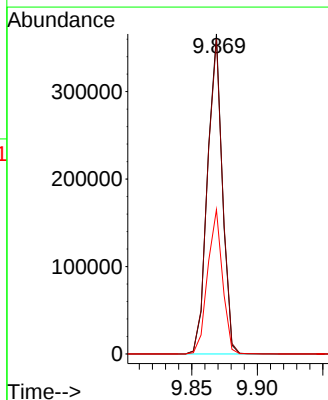
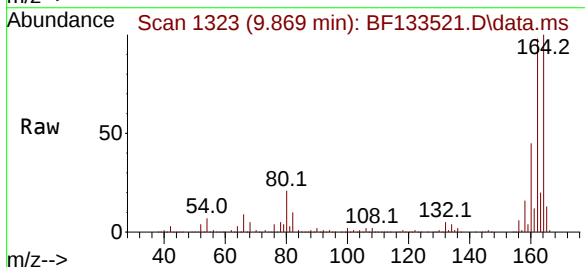
Instrument :  
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TWP04RE

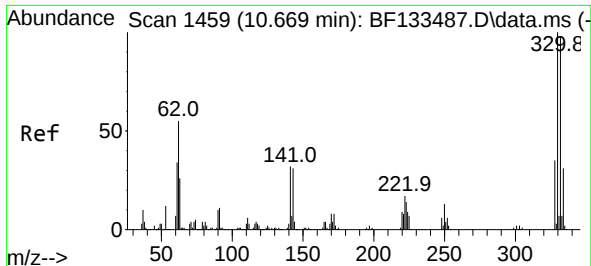
Tgt Ion:122 Resp: 627  
Ion Ratio Lower Upper  
122 100  
105 88.1 103.3 143.3#  
77 47.1 75.7 115.7#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.869 min Scan# 1323  
Delta R.T. -0.006 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

Tgt Ion:164 Resp: 286671  
Ion Ratio Lower Upper  
164 100  
162 98.3 79.7 119.5  
160 45.1 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 91.443 ng

RT: 10.657 min Scan# 1457

Delta R.T. -0.006 min

Lab File: BF133521.D

Acq: 30 May 2023 14:43

Instrument :

BNA\_F

ClientSampleId :

TWP04RE

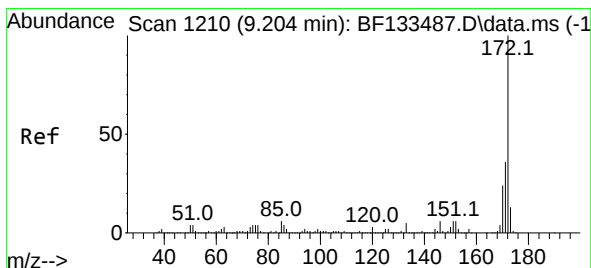
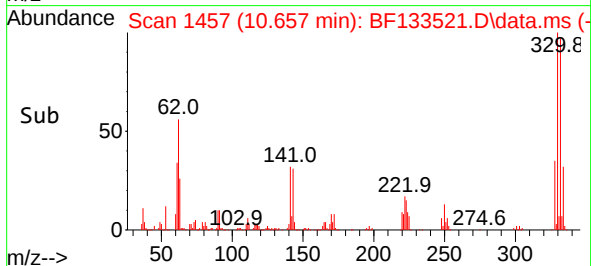
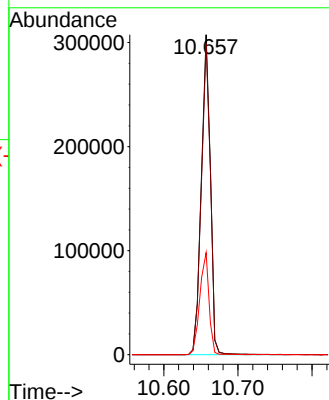
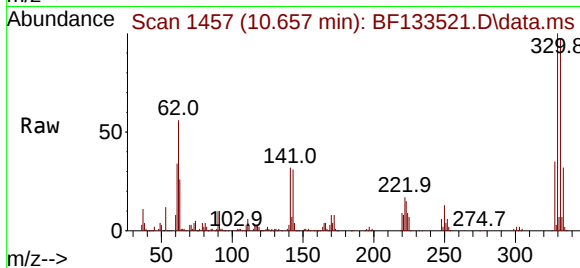
Tgt Ion:330 Resp: 261306

Ion Ratio Lower Upper

330 100

332 97.4 77.8 116.6

141 32.4 26.6 40.0



#45

2-Fluorobiphenyl

Concen: 82.230 ng

RT: 9.192 min Scan# 1208

Delta R.T. -0.006 min

Lab File: BF133521.D

Acq: 30 May 2023 14:43

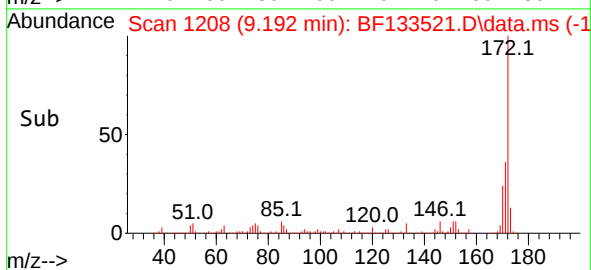
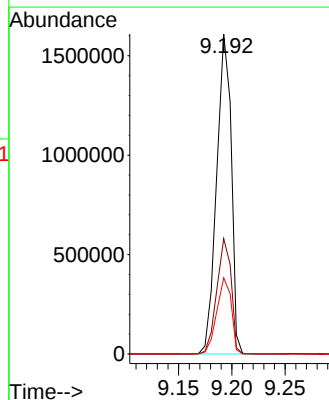
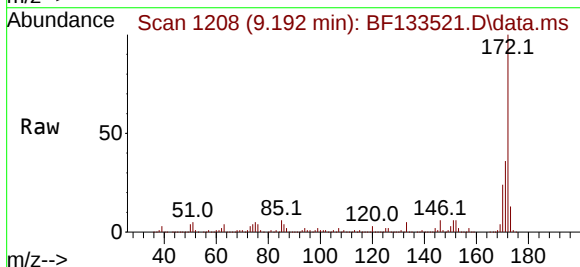
Tgt Ion:172 Resp: 1527304

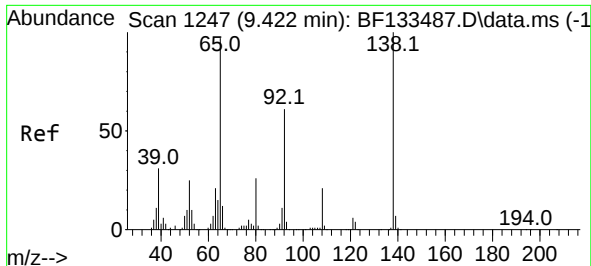
Ion Ratio Lower Upper

172 100

171 36.1 28.4 42.6

170 23.8 19.3 28.9

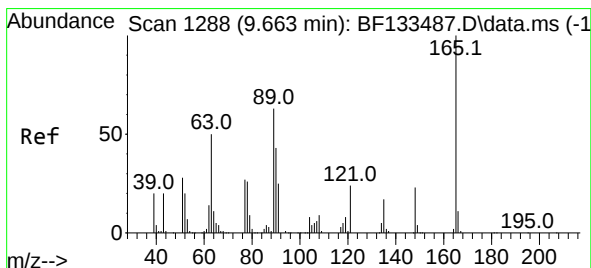
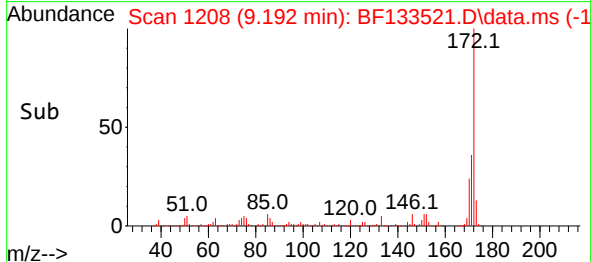
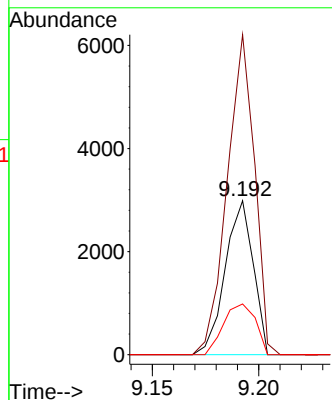
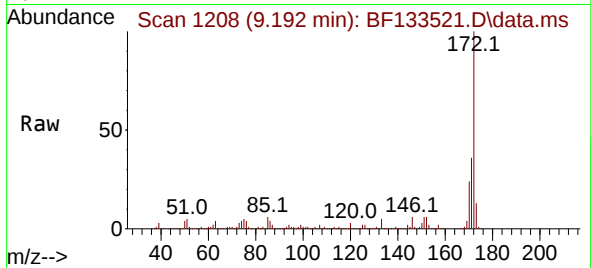




#48  
2-Nitroaniline  
Concen: 4.453 ng  
RT: 9.192 min Scan# 11  
Delta R.T. -0.224 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

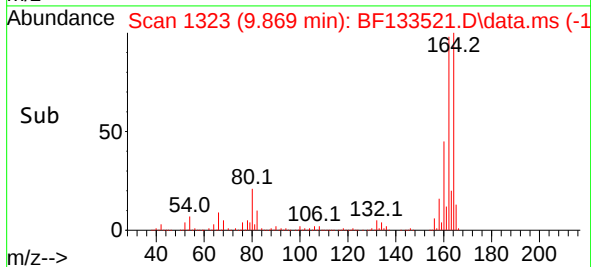
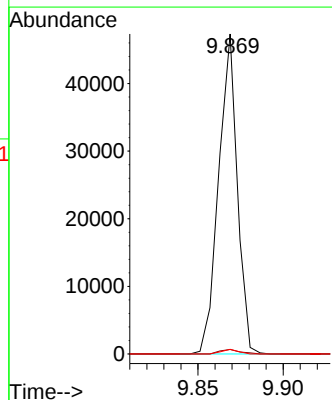
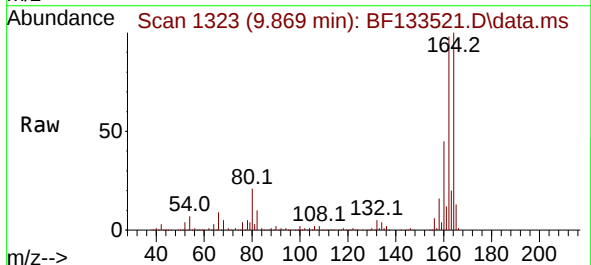
Instrument :  
BNA\_F  
ClientSampleId :  
TWP04RE

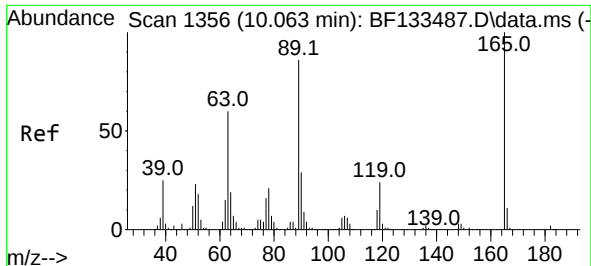
Tgt Ion: 65 Resp: 2733  
Ion Ratio Lower Upper  
65 100  
92 207.8 50.8 76.2#  
138 33.0 82.6 124.0#



#51  
2,6-Dinitrotoluene  
Concen: 12.381 ng  
RT: 9.869 min Scan# 1323  
Delta R.T. 0.212 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

Tgt Ion: 165 Resp: 36091  
Ion Ratio Lower Upper  
165 100  
63 1.4 57.0 85.4#  
89 1.4 50.8 76.2#

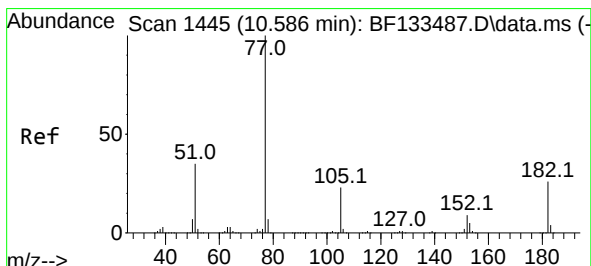
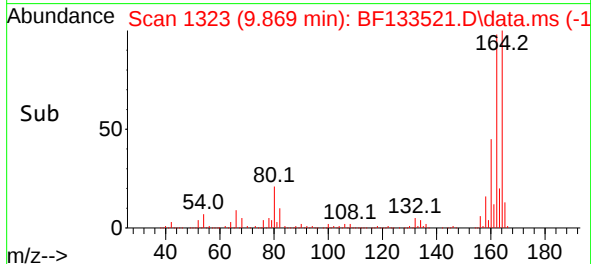
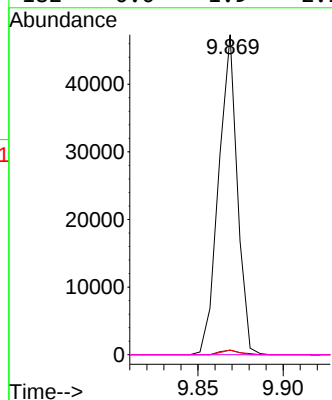
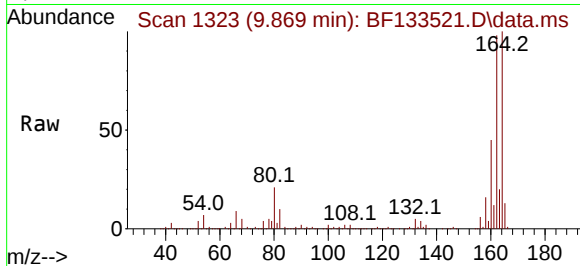




#57  
2,4-Dinitrotoluene  
Concen: 11.586 ng  
RT: 9.869 min Scan# 11  
Delta R.T. -0.194 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

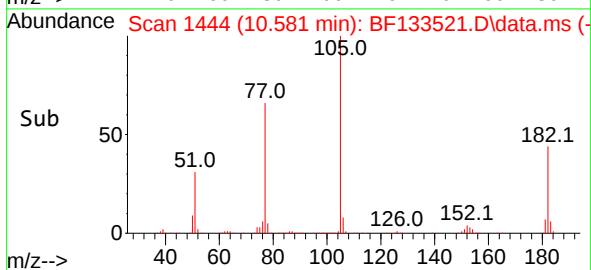
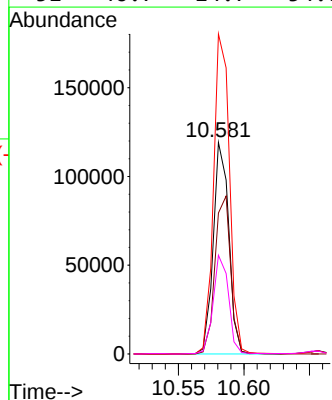
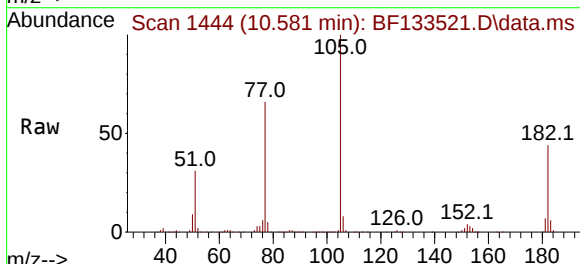
Instrument :  
BNA\_F  
ClientSampleId :  
TWP04RE

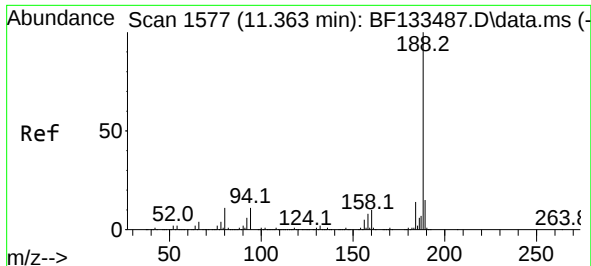
Tgt Ion:165 Resp: 36091  
Ion Ratio Lower Upper  
165 100  
63 1.4 48.1 72.1#  
89 1.4 68.4 102.6#  
182 0.0 1.9 2.9#



#63  
Azobenzene  
Concen: 4.700 ng  
RT: 10.581 min Scan# 1444  
Delta R.T. 0.006 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

Tgt Ion: 77 Resp: 98407  
Ion Ratio Lower Upper  
77 100  
182 66.7 5.6 45.6#  
105 151.2 2.6 42.6#  
51 46.7 14.7 54.7

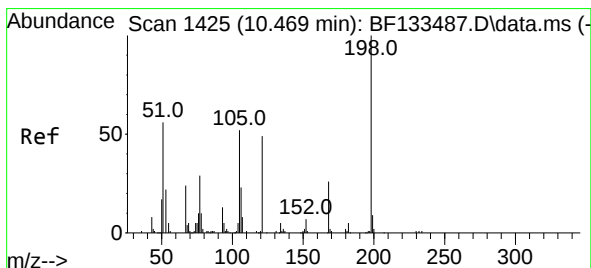
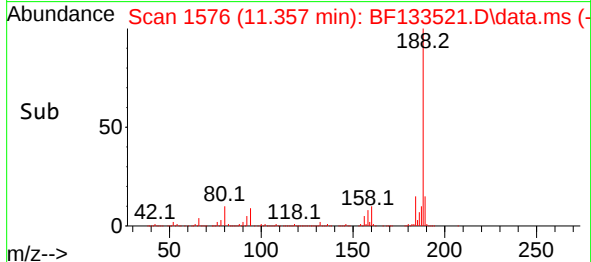
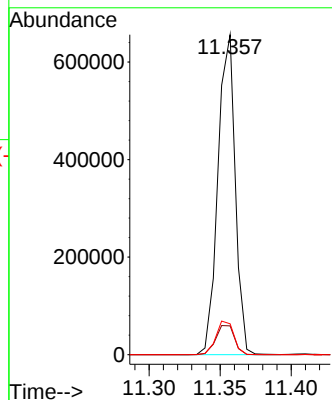
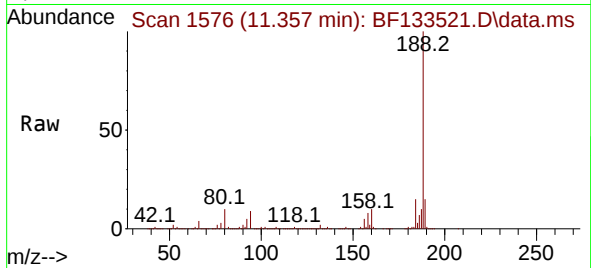




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.357 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

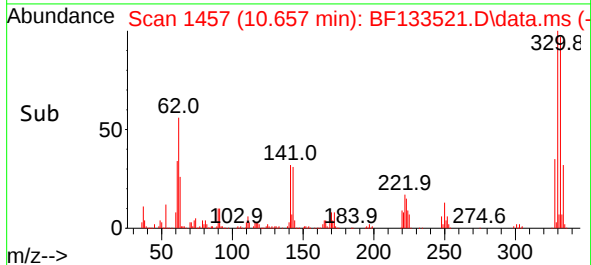
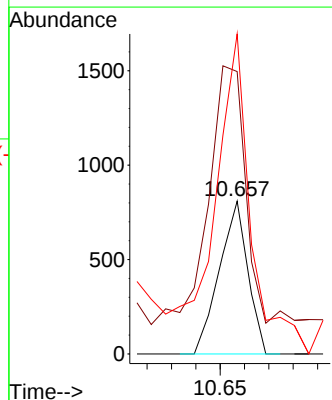
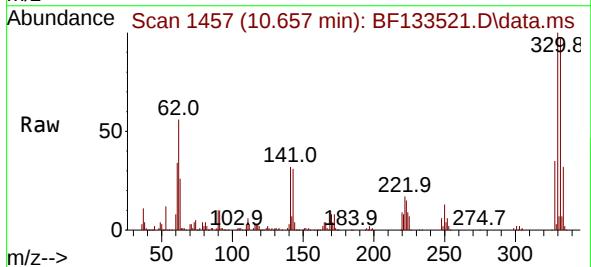
Instrument :  
BNA\_F  
ClientSampleId :  
TWP04RE

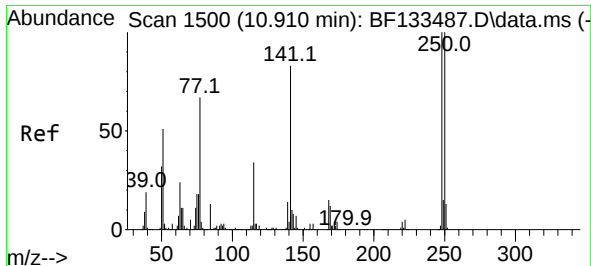
Tgt Ion:188 Resp: 555004  
Ion Ratio Lower Upper  
188 100  
94 9.0 8.6 12.8  
80 9.6 9.2 13.8



#65  
4,6-Dinitro-2-methylphenol  
Concen: 8.949 ng  
RT: 10.657 min Scan# 1457  
Delta R.T. 0.188 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

Tgt Ion:198 Resp: 657  
Ion Ratio Lower Upper  
198 100  
51 184.9 53.6 93.6#  
105 209.5 35.9 75.9#

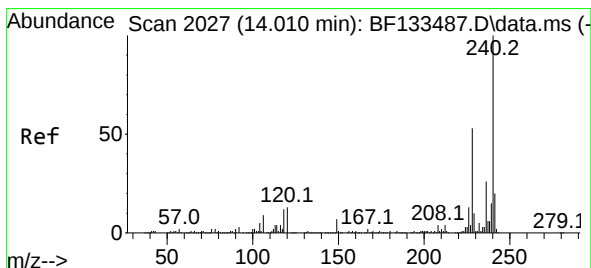
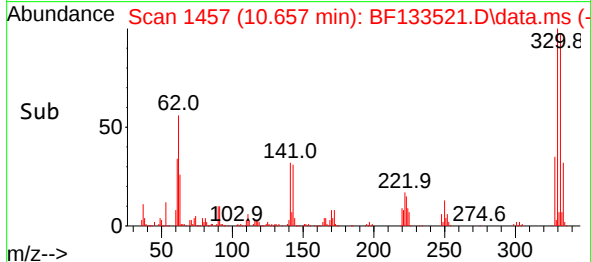
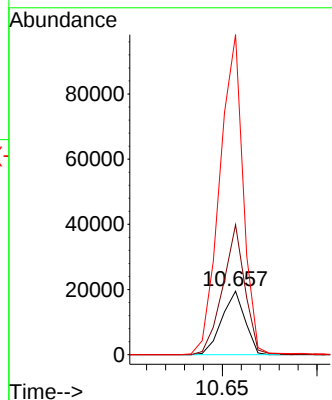
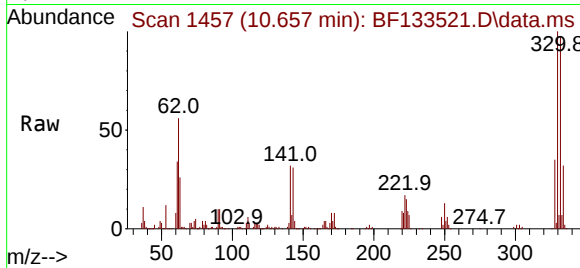




#67  
4-Bromophenyl-phenylether  
Concen: 2.816 ng  
RT: 10.657 min Scan# 14  
Delta R.T. -0.247 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

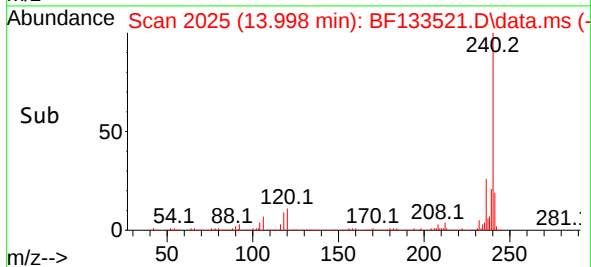
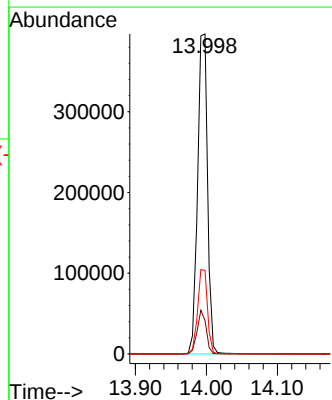
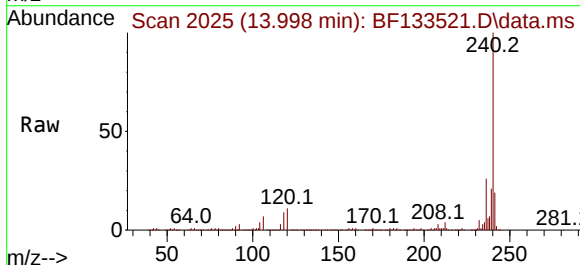
Instrument :  
BNA\_F  
ClientSampleId :  
TWP04RE

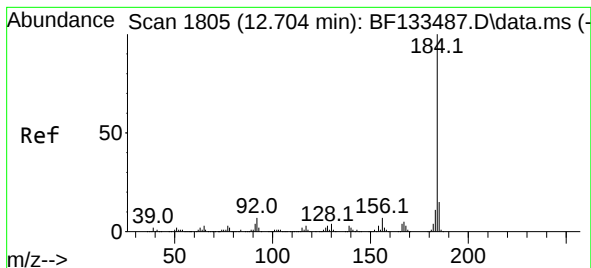
Tgt Ion:248 Resp: 16597  
Ion Ratio Lower Upper  
248 100  
250 204.5 79.7 119.5#  
141 503.3 66.6 100.0#



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.998 min Scan# 2025  
Delta R.T. -0.006 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

Tgt Ion:240 Resp: 387103  
Ion Ratio Lower Upper  
240 100  
120 10.5 10.3 15.5  
236 26.1 20.5 30.7





#77

Benzidine

Concen: 2.043 ng

RT: 12.951 min Scan# 1847

Delta R.T. 0.253 min

Lab File: BF133521.D

Acq: 30 May 2023 14:43

Instrument :

BNA\_F

ClientSampleId :

TWP04RE

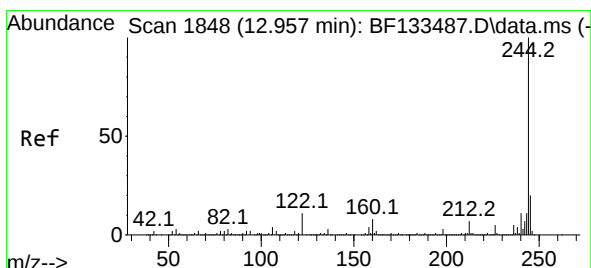
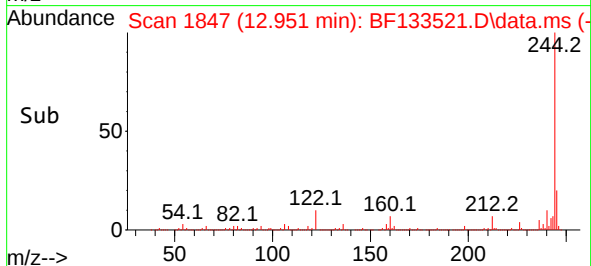
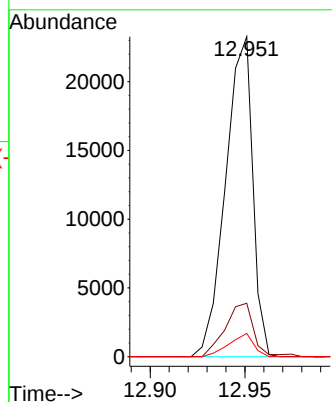
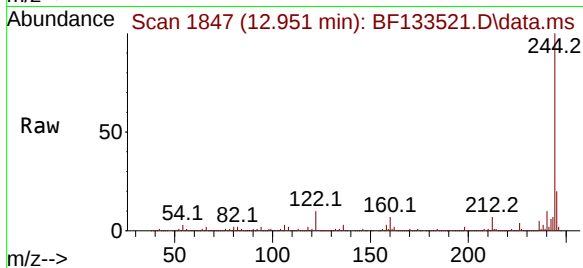
Tgt Ion:184 Resp: 23125

Ion Ratio Lower Upper

184 100

185 16.7 12.2 18.2

183 7.2 8.7 13.1#



#79

Terphenyl-d14

Concen: 75.652 ng

RT: 12.951 min Scan# 1847

Delta R.T. -0.000 min

Lab File: BF133521.D

Acq: 30 May 2023 14:43

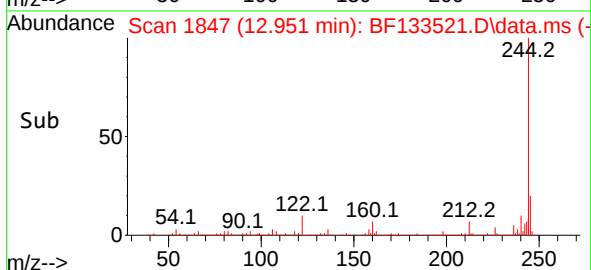
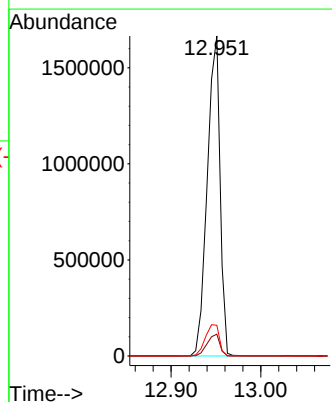
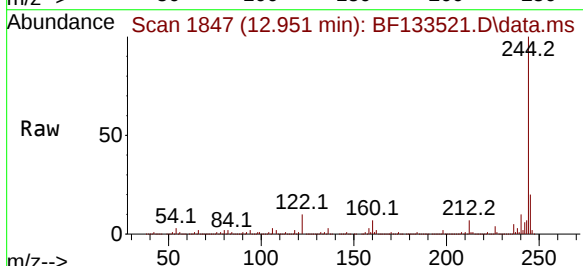
Tgt Ion:244 Resp: 1647099

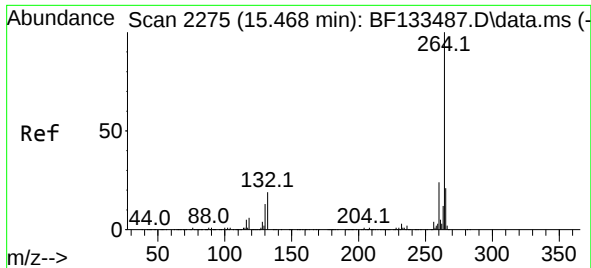
Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.6

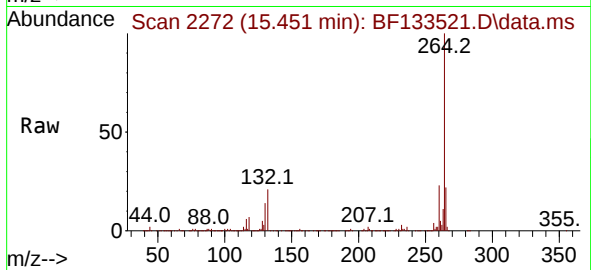
122 9.6 8.5 12.7





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.451 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BF133521.D  
Acq: 30 May 2023 14:43

Instrument :  
BNA\_F  
ClientSampleId :  
TWP04RE



Tgt Ion:264 Resp: 288962  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.3  | 19.0  | 28.4  |
| 265 | 21.8  | 16.8  | 25.2  |

